INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000339

According to International Patient Classification (IPC) or to both national classification and IPC B. FIELDS SEANCHED Minimum documentations searched (classification system followed by classification symbols) 1nt. Cl. G187/09-7/10, H03H17/02, G05B13/02 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shiram Koho 1921-1996 Jitsuyo Shiram Koho 1994-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 1-140432 A (Sony Corp.), A 01 June, 1989 (01.06.89), Page 3, lower left column, line 33; Figs. 1 to 3 (Family: none) Y JP 10-13330 A (Matsushita Electric Industrial 1,6-8 A Co., Ltd.), 22 May, 1998 (22.05.98), Par. Nos. [0021] to [0029]; Figs. 1 to 6 (Family: none) A JP 9-50303 A (Mitsubishi Electric Corp.), 18 February, 1997 (18.02.97), Par. Nos. (10030) to [0082]; Figs. 1 to 9 (Family: none) E Further documents are listed in the continuation of Box C. See patent family annex. Special exegories of state documents: and document defining the genesis tase of the art which is not considered in the continuation of Box C. See patent family annex. Figure of the second completion of the international search of the principle of theory underlying the invention cannot be extended reason (as specified) Date of the actual completion of the international search of April , 2005 (26.04.05) Name and mailing address of the ISA/ Japanese Patent Office Exessible No. Technology to be administration of the continuation o			FC1/C	122003/000339
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Torroku Koho 1996-2005 Rokal Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 1-140432 A (Sony Corp.), A 01 June, 1989 (01.06.89), Page 3, lower left column, line 13; Figs. 1 to 3 (Family: none) Y JF 10-134380 A (Matsushita Electric Industrial A Co., Ltd.), 22 May, 1998 (22.05.98), Par. Nos. [0021] to [0029]; Figs. 1 to 6 (Family: none) A JP 9-50303 A (Mitsubishi Electric Corp.), 18 February, 1997 (18.02.97), Par. Nos. [0030] to [0082]; Figs. 1 to 9 Further documents are listed in the continuation of Box C. See patent family amnex. To describe defining the general state of the art which is not considered to be of particular relevance satier application or pates thus published on or after the international filing date or priority date of the continuation of the international filing date to take the filing date of the continuation of Box C. See patent family amnex. To later document published after the international filing date or priority date of the continuation of Box C. See patent family amnex. To later document published after the international filing date or priority date claimed To document published prior to the international filing date but later than the priority date claimed To decument published prior to the international filing date but later than the priority date claimed To decument published prior to the international filing date but later than the priority date claimed To decument published prior to the international filing date but later than the priority date claimed To decument published prior to the internat				· · · · · · · · · · · · · · · · · · ·
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Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y	Electronic data t	pase consulted during the international search (name of	f data base and, where practicable, searc	h terms used)
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A Co., Ltd.), 22 May, 1998 (22.05.98), Par. Nos. [0021] to [0029]; Figs. 1 to 6 (Family: none) A JP 9-50303 A (Mitsubishi Electric Corp.), 18 February, 1997 (18.02.97), Par. Nos. [0030] to [0082]; Figs. 1 to 9 (Family: none) EX Further documents are listed in the continuation of Box C. * Special categories of cited documents: *A document defining the general state of the arr which is not considered to be of particular relevance: *E earlier application or patent bur published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle theory underlying the invention and the principle date and not in conflict with the application but cited to understand the principle date. *Y document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O document referring to an oral disclosure, use, exhibition or other means reproduced in the priority date claimed invention cannot be considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is considered to involve an inventive step when the document of particular relevance: **S document of particular relevance: *		Page 3, lower left column, l lower left column, line 13;	ine 20 to page 5, Figs. 1 to 3	2-5
See patent family annex. See patent family annex.		Co., Ltd.), 22 May, 1998 (22.05.98), Par. Nos. [0021] to [0029];		•
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 08 April, 2005 (08.04.05) Name and mailing address of the ISA/ Japanese Patent Office "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family Date of mailing of the international search report 26 April, 2005 (26.04.05) Authorized officer Telephone No.	A	18 February, 1997 (18.02.97) Par. Nos. [0030] to [0082];	,	1-8
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 08 April, 2005 (08.04.05) Name and mailing address of the ISA/ Japanese Patent Office "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family Date of mailing of the international search report 26 April, 2005 (26.04.05) Authorized officer Telephone No.	X Further doc	numents are listed in the continuation of Roy C	See natent family annay	
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Japanese Patent Office Facsimile No. Telephone No.	08 April, 2005 (08.04.05) 26 April, 2005 (26.04.05)			
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		(second sheet) (January 2004)	Telephone No.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000339

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 3-194736 A (Konica Corp.), 26 August, 1991 (26.08.91), Full text; Figs. 1 to 5 (Family: none)	1-8
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国際調査報告

国際出願番号 PCT/JP2005/00.0339

発明の属する分野の分類(国際特許分類(IPC))

Int.Cl.⁷ G11B7/095

調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int.Cl.⁷ G11B7/09-7/10, H03H17/02, G05B13/02

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報

1922-1996年

日本国公開実用新案公報

1971-2005年

日本国実用新案登録公報

1996-2005年

日本国登録実用新案公報

1994-2005年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連する	5と認められる文献	
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
Y A	JP 1-140432 A (ソニー株式会社) 1989.06.01,第3頁左下欄第20行-第5頁左下欄第1 3行,第1-3図 (ファミリーなし)	1, 6-8 2-5
Y A	JP 10-134380 A (松下電器産業株式会社) 1998.05.22,【0021】-【0029】, 図1-6 (ファミリーなし)	1, 6-8 2-5

▼ C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

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- 「&」同一パテントファミリー文献

国際調査を完了した日

08.04.2005

国際調査報告の発送日 26.4.2005

国際調査機関の名称及びあて先

日本国特許庁(ISA/JP) 郵便番号100-8915 東京都千代田区設が関三丁目4番3号 特許庁審査官(権限のある職員)

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古河 雅輝

電話番号 03-3581-1101 内線 3551 国際調査報告

国際出願番号 PCT/JP2005/000339

	関連すると認められる文献	
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A	JP 9-50303 A (三菱電機株式会社) 1997.02.18,【0030】-【0082】, 図1-9 (ファミリーなし)	1-8
· A	JP 3-194736 A (コニカ株式会社) 1991.08.26,全文,第1-5図(ファミリーなし)	1-8
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